

Gianaurelio Cuniberti

List of Publications by Year in descending order

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496
papers

17,658
citations

12303

69
h-index

28224

105
g-index

506
all docs

506
docs citations

506
times ranked

20088
citing authors

#	ARTICLE	IF	CITATIONS
1	Selective and self-validating breath-level detection of hydrogen sulfide in humid air by gold nanoparticle-functionalized nanotube arrays. <i>Nano Research</i> , 2022, 15, 2512-2521.	5.8	21
2	Effect of lubricants on the rotational transmission between solid-state gears. <i>Beilstein Journal of Nanotechnology</i> , 2022, 13, 54-62.	1.5	1
3	Emerging Internet of Things driven carbon nanotubes-based devices. <i>Nano Research</i> , 2022, 15, 4613-4637.	5.8	23
4	A wafer-scale two-dimensional platinum monosulfide ultrathin film via metal sulfurization for high performance photoelectronics. <i>Materials Advances</i> , 2022, 3, 1497-1505.	2.6	14
5	An effective formaldehyde gas sensor based on oxygen-rich three-dimensional graphene. <i>Nanotechnology</i> , 2022, 33, 185702.	1.3	14
6	Continuous monitoring of molecular biomarkers in microfluidic devices. <i>Progress in Molecular Biology and Translational Science</i> , 2022, 187, 295-333.	0.9	0
7	A nanographene disk rotating a single molecule gear on a Cu(111) surface. <i>Nanotechnology</i> , 2022, 33, 175701.	1.3	3
8	Machine Learning-Enabled Smart Gas Sensing Platform for Identification of Industrial Gases. <i>Advanced Intelligent Systems</i> , 2022, 4, .	3.3	18
9	A Chirality-Based Quantum Leap. <i>ACS Nano</i> , 2022, 16, 4989-5035.	7.3	74
10	Control of Crystallinity of Vinylene-Linked Two-Dimensional Conjugated Polymers by Rational Monomer Design. <i>Chemistry - A European Journal</i> , 2022, 28, .	1.7	5
11	Combination of Knoevenagel Polycondensation and Water-Assisted Dynamic Michael-Addition-Elimination for the Synthesis of Vinylene-Linked 2D Covalent Organic Frameworks. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	23
12	Combination of Knoevenagel Polycondensation and Water-Assisted Dynamic Michael-Addition-Elimination for the Synthesis of Vinylene-Linked 2D Covalent Organic Frameworks. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	4
13	Nanosensors in clinical development of CAR-T cell immunotherapy. <i>Biosensors and Bioelectronics</i> , 2022, 206, 114124.	5.3	5
14	On-water surface synthesis of charged two-dimensional polymer single crystals via the irreversible Katritzky reaction. , 2022, 1, 69-76.		34
15	StarPEG-heparin biosensors for rapid and portable diagnostics in complex biofluids. <i>Sensors & Diagnostics</i> , 2022, 1, 558-565.	1.9	3
16	Sniffbots to the Rescue - Fog Services for Gas-Sniffing Immersive Robot Collective. <i>Lecture Notes in Computer Science</i> , 2022, , 3-28.	1.0	2
17	Exploring the similarity of single-layer covalent organic frameworks using electronic structure calculations. <i>RSC Advances</i> , 2022, 12, 12283-12291.	1.7	6
18	Real-Time Monitoring of Blood Parameters in the Intensive Care Unit: State-of-the-Art and Perspectives. <i>Journal of Clinical Medicine</i> , 2022, 11, 2408.	1.0	6

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19	Multisite Dopamine Sensing With Femtomolar Resolution Using a CMOS Enabled Aptasensor Chip. <i>Frontiers in Neuroscience</i> , 2022, 16, .	1.4	7
20	The contribution of intermolecular spin interactions to the London dispersion forces between chiral molecules. <i>Journal of Chemical Physics</i> , 2022, 156, .	1.2	9
21	Epitaxial Growth of Vertically Aligned Antimony Selenide Nanorod Arrays for Heterostructure Based Self-Powered Photodetector. <i>Advanced Optical Materials</i> , 2022, 10, .	3.6	44
22	Highly sensitive room temperature ammonia gas sensor using pristine graphene: The role of biocompatible stabilizer. <i>Carbon</i> , 2021, 173, 262-270.	5.4	46
23	Photocatalytic degradation of ciprofloxacin in water at nano-ZnO prepared by pulse alternating current electrochemical synthesis. <i>Journal of Water Process Engineering</i> , 2021, 40, 101809.	2.6	28
24	Predicting the bulk modulus of single-layer covalent organic frameworks with square-lattice topology from molecular building-block properties. <i>Nanoscale</i> , 2021, 13, 1077-1085.	2.8	8
25	Effects of external mechanical or magnetic fields and defects on electronic and transport properties of graphene. <i>Materials Today: Proceedings</i> , 2021, 35, 523-529.	0.9	14
26	Coexistence of fluorescent <i>Escherichia coli</i> strains in millifluidic droplet reactors. <i>Lab on A Chip</i> , 2021, 21, 1492-1502.	3.1	7
27	Evaluation of in Vitro Corrosion Behavior of Titanium Oxynitride Coated Stainless Steel Stents. <i>IEEE Access</i> , 2021, 9, 59766-59782.	2.6	3
28	Enhanced visible-light photodegradation of fluoroquinolone-based antibiotics and <i>E. coli</i> growth inhibition using Ag-TiO ₂ nanoparticles. <i>RSC Advances</i> , 2021, 11, 13980-13991.	1.7	26
29	One-way rotation of a chemically anchored single molecule-rotor. <i>Nanoscale</i> , 2021, 13, 16077-16083.	2.8	11
30	Surface-Phonon-Induced Rotational Dissipation for Nanoscale Solid-State Gears. <i>Physical Review Applied</i> , 2021, 15, .	1.5	5
31	Theoretical Insight into High-Efficiency Triple-Junction Tandem Solar Cells via the Band Engineering of Antimony Chalcogenides. <i>Solar Rrl</i> , 2021, 5, 2000800.	3.1	70
32	Nanoscale Phononic Analog of the Ranque-Hilsch Vortex Tube. <i>Physical Review Applied</i> , 2021, 15, .	1.5	1
33	Multi-walled carbon nanotube dispersion methodologies in alkaline media and their influence on mechanical reinforcement of alkali-activated nanocomposites. <i>Composites Part B: Engineering</i> , 2021, 209, 108559.	5.9	18
34	Impact of surface charge on the motion of light-activated Janus micromotors. <i>European Physical Journal E</i> , 2021, 44, 39.	0.7	8
35	Thermoelectric Energy Harvesting from Single-Walled Carbon Nanotube Alkali-Activated Nanocomposites Produced from Industrial Waste Materials. <i>Nanomaterials</i> , 2021, 11, 1095.	1.9	13
36	Synthesis of Wafer-Scale Graphene with Chemical Vapor Deposition for Electronic Device Applications. <i>Advanced Materials Technologies</i> , 2021, 6, 2000744.	3.0	46

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37	Olfactory Perception in Relation to the Physicochemical Odor Space. <i>Brain Sciences</i> , 2021, 11, 563.	1.1	8
38	Highly Sensitive Silicon Nanowire Biosensor Devices for the Investigation of UniCAR Platform in Immunotherapy. <i>Engineering Proceedings</i> , 2021, 6, .	0.4	0
39	Detection of C-Reactive Protein by Liquid-Gated Carbon Nanotube Field Effect Transistors (LG-CNTFET): A Promising Tool against Antibiotic Resistance. <i>Engineering Proceedings</i> , 2021, 6, .	0.4	0
40	ZnO Low-Dimensional Thin Films Used as a Potential Material for Water Treatment. <i>Engineering Proceedings</i> , 2021, 6, .	0.4	0
41	Supramolecular Functionalized Pristine Graphene Utilizing a Bio-Compatible Stabilizer towards Ultra-Sensitive Ammonia Detection. <i>Engineering Proceedings</i> , 2021, 6, 14.	0.4	0
42	Determining the Diffusion Coefficient of Lithium Insertion Cathodes from GITT measurements: Theoretical Analysis for low Temperatures**. <i>ChemPhysChem</i> , 2021, 22, 885-893.	1.0	30
43	CuO-Doped Alginate for Simple Electrochemical Vitamin C Sensing in Sweat. <i>Engineering Proceedings</i> , 2021, 6, .	0.4	0
44	Multiscale Modeling Strategy of 2D Covalent Organic Frameworks Confined at an Air-Water Interface. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 26411-26420.	4.0	9
45	Hemocompatible Electrochemical Sensors for Continuous Monitoring of Blood Parameters. <i>Engineering Proceedings</i> , 2021, 6, .	0.4	1
46	Applications of 2D-Layered Palladium Diselenide and Its van der Waals Heterostructures in Electronics and Optoelectronics. <i>Nano-Micro Letters</i> , 2021, 13, 143.	14.4	61
47	An Atomistic Study of the Thermoelectric Signatures of CNT Peapods. <i>Journal of Physical Chemistry C</i> , 2021, 125, 13721-13731.	1.5	5
48	Describing chain-like assembly of ethoxygroup-functionalized organic molecules on Au(111) using high-throughput simulations. <i>Scientific Reports</i> , 2021, 11, 14649.	1.6	1
49	Nanoelectromechanical rotary current rectifier. <i>Physical Review Research</i> , 2021, 3, .	1.3	2
50	The role of structural symmetry on proton tautomerization: A DFTB/Meta-Dynamics computational study. <i>Chemical Physics</i> , 2021, 548, 111222.	0.9	0
51	A combined experimental and theoretical study of 1,4-bis(phenylethynyl)-2,5-bis(ethoxy)benzene adsorption on Au(111). <i>Surface Science</i> , 2021, 712, 121877.	0.8	4
52	Investigating a Combined Stochastic Nucleation and Molecular Dynamics-Based Equilibration Approach for Constructing Large-Scale Polycrystalline Films. <i>Journal of Chemical Theory and Computation</i> , 2021, 17, 1266-1275.	2.3	0
53	On-Surface Formation of Cyano-Vinylene Linked Chains by Knoevenagel Condensation. <i>Chemistry - A European Journal</i> , 2021, 27, 17336-17340.	1.7	4
54	Graphene Biodevices for Early Disease Diagnosis Based on Biomarker Detection. <i>ACS Sensors</i> , 2021, 6, 3841-3881.	4.0	45

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55	Multicolor Patterning of 2D Semiconductor Nanoplatelets. ACS Nano, 2021, 15, 17623-17634.	7.3	12
56	Neuromorphic hybrid systems based on polarizable thin film-coated silicon nanowire field-effect transistors. , 2021, , .		0
57	A zinc selective oxytocin based biosensor. Journal of Materials Chemistry B, 2020, 8, 155-160.	2.9	11
58	Dodecacene Generated on Surface: Reopening of the Energy Gap. ACS Nano, 2020, 14, 1011-1017.	7.3	93
59	Spin-Polarized Electron Transmission in DNA-Like Systems. Biomolecules, 2020, 10, 49.	1.8	10
60	Synthese von Vinylätherknäpfen zweidimensionalen konjugierten Polymeren via Horner-Wadsworth-Emmons-Reaktion. Angewandte Chemie, 2020, 132, 23827-23832.	1.6	18
61	Comparative Studies of Light-Responsive Swimmers: Janus Nanorods versus Spherical Particles. Langmuir, 2020, 36, 12504-12512.	1.6	4
62	Nanosensor-Based Real-Time Monitoring of Stress Biomarkers in Human Saliva Using a Portable Measurement System. ACS Sensors, 2020, 5, 4081-4091.	4.0	26
63	Role of Exchange Interactions in the Magnetic Response and Intermolecular Recognition of Chiral Molecules. Nano Letters, 2020, 20, 7077-7086.	4.5	35
64	Nanocytometer for smart analysis of peripheral blood and acute myeloid leukemia: a pilot study. Nano Letters, 2020, 20, 6572-6581.	4.5	14
65	Transmitting Stepwise Rotation among Three Molecule-Gear on the Au(111) Surface. Journal of Physical Chemistry Letters, 2020, 11, 6892-6899.	2.1	19
66	Inverse Solidification Induced by Active Janus Particles. Advanced Functional Materials, 2020, 30, 2003851.	7.8	19
67	Synthesis of Vinylene-Linked Two-Dimensional Conjugated Polymers via the Horner-Wadsworth-Emmons Reaction. Angewandte Chemie - International Edition, 2020, 59, 23620-23625.	7.2	86
68	Interactions of Long-Chain Polyamines with Silica Studied by Molecular Dynamics Simulations and Solid-State NMR Spectroscopy. Langmuir, 2020, 36, 11600-11609.	1.6	9
69	Electrochemical detection of ascorbic acid in artificial sweat using a flexible alginate/CuO-modified electrode. Mikrochimica Acta, 2020, 187, 520.	2.5	37
70	Determination of the Entire Stent Surface Area by a New Analytical Method. Materials, 2020, 13, 5633.	1.3	3
71	STM induced manipulation of azulene-based molecules and nanostructures: the role of the dipole moment. Nanoscale, 2020, 12, 24471-24476.	2.8	10
72	Continuum modelling of structure formation of biosilica patterns in diatoms. BMC Materials, 2020, 2, .	6.8	1

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73	Graphene, other carbon nanomaterials and the immune system: toward nanoimmunity-by-design. JPhys Materials, 2020, 3, 034009.	1.8	29
74	Effective Hamiltonian model for helically constrained quantum systems within adiabatic perturbation theory: Application to the chirality-induced spin selectivity (CISS) effect. Journal of Chemical Physics, 2020, 152, 214105.	1.2	24
75	In vitro characterization of osteoblast cells on polyelectrolyte multilayers containing detonation nanodiamonds. Biomedical Materials (Bristol), 2020, 15, 055026.	1.7	2
76	GITT Analysis of Lithium Insertion Cathodes for Determining the Lithium Diffusion Coefficient at Low Temperature: Challenges and Pitfalls. Journal of the Electrochemical Society, 2020, 167, 090546.	1.3	130
77	Surface Modification of Silicon Nanowire Based Field Effect Transistors with Stimuli Responsive Polymer Brushes for Biosensing Applications. Micromachines, 2020, 11, 274.	1.4	18
78	Mechanical Transmission of Rotational Motion between Molecular-Scale Gears. Physical Review Applied, 2020, 13, .	1.5	13
79	Exploring the organic-inorganic interface in biosilica: atomistic modeling of polyamine and silica precursors aggregation behavior. BMC Materials, 2020, 2, .	6.8	4
80	Two-Dimensional Boronate Ester Covalent Organic Framework Thin Films with Large Single Crystalline Domains for a Neuromorphic Memory Device. Angewandte Chemie - International Edition, 2020, 59, 8218-8224.	7.2	116
81	Boron-Doped Single-Walled Carbon Nanotubes with Enhanced Thermoelectric Power Factor for Flexible Thermoelectric Devices. ACS Applied Energy Materials, 2020, 3, 2556-2564.	2.5	25
82	Enhanced Photocatalytic Activity of Au/TiO ₂ Nanoparticles against Ciprofloxacin. Catalysts, 2020, 10, 234.	1.6	50
83	Two-Dimensional Boronate Ester Covalent Organic Framework Thin Films with Large Single Crystalline Domains for a Neuromorphic Memory Device. Angewandte Chemie, 2020, 132, 8295-8301.	1.6	36
84	Nanosensors-Assisted Quantitative Analysis of Biochemical Processes in Droplets. Micromachines, 2020, 11, 138.	1.4	4
85	Modification of titanium implants using biofunctional nanodiamonds for enhanced antimicrobial properties. Nanotechnology, 2020, 31, 205603.	1.3	9
86	Anisotropic Exclusion Effect between Photocatalytic Ag/AgCl Janus Particles and Passive Beads in a Dense Colloidal Matrix. Langmuir, 2020, 36, 7091-7099.	1.6	17
87	Boron Doping of SWCNTs as a Way to Enhance the Thermoelectric Properties of Melt-Mixed Polypropylene/SWCNT Composites. Energies, 2020, 13, 394.	1.6	20
88	Design and Performance of Novel Self-Cleaning g-C ₃ N ₄ /PMMA/PUR Membranes. Polymers, 2020, 12, 850.	2.0	14
89	Intrinsic plasticity of silicon nanowire neurotransistors for dynamic memory and learning functions. Nature Electronics, 2020, 3, 398-408.	13.1	37
90	Mechanical Transmission of Rotation for Molecule Gears and Solid-State Gears. Advances in Atom and Single Molecule Machines, 2020, , 165-180.	0.0	2

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91	Straintronics in graphene: Extra large electronic band gap induced by tensile and shear strains. <i>Journal of Applied Physics</i> , 2019, 126, .	1.1	51
92	S-layer protein-AuNP systems for the colorimetric detection of metal and metalloid ions in water. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 183, 110284.	2.5	2
93	Stimulation of bone formation by monocyte-activator functionalized graphene oxide <i>in vivo</i> . <i>Nanoscale</i> , 2019, 11, 19408-19421.	2.8	32
94	Influence of Mesityl and Thiophene Peripheral Substituents on Surface Attachment, Redox Chemistry, and ORR Activity of Molecular Iron Porphyrin Catalysts on Electrodes. <i>Inorganic Chemistry</i> , 2019, 58, 10637-10647.	1.9	13
95	Green function, quasi-classical Langevin and Kubo "Greenwood methods in quantum thermal transport. <i>Journal of Physics Condensed Matter</i> , 2019, 31, 273003.	0.7	15
96	Quantum Phonon Transport in Nanomaterials: Combining Atomistic with Non-Equilibrium Green's Function Techniques. <i>Entropy</i> , 2019, 21, 735.	1.1	12
97	Direct Assembly and Metal-Ion Binding Properties of Oxytocin Monolayer on Gold Surfaces. <i>Langmuir</i> , 2019, 35, 11114-11122.	1.6	8
98	Recapitulating bone development events in a customised bioreactor through interplay of oxygen tension, medium pH, and systematic differentiation approaches. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2019, 13, 1672-1684.	1.3	1
99	Chirality-Induced Spin Selectivity in a Coarse-Grained Tight-Binding Model for Helicene. <i>Journal of Physical Chemistry C</i> , 2019, 123, 27230-27241.	1.5	44
100	Two-Dimensional SiP, SiAs, GeP and GeAs as Promising Candidates for Photocatalytic Applications. <i>Coatings</i> , 2019, 9, 522.	1.2	32
101	Room temperature single-step synthesis of metal decorated boron-rich nanowires via laser ablation. <i>Nano Convergence</i> , 2019, 6, 14.	6.3	3
102	Engineering crystalline quasi-two-dimensional polyaniline thin film with enhanced electrical and chemiresistive sensing performances. <i>Nature Communications</i> , 2019, 10, 4225.	5.8	132
103	ITO Work Function Tunability by Polarizable Chromophore Monolayers. <i>Langmuir</i> , 2019, 35, 2997-3004.	1.6	12
104	Doping engineering of thermoelectric transport in BNC heteronanotubes. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 1904-1911.	1.3	10
105	Current-induced rotations of molecular gears. <i>Journal of Physics Communications</i> , 2019, 3, 025011.	0.5	12
106	Photocatalytic Microporous Membrane against the Increasing Problem of Water Emerging Pollutants. <i>Materials</i> , 2019, 12, 1649.	1.3	32
107	Quantitative analysis of BMP-2 derived peptide covalently grafted onto oxidized detonation nanodiamonds. <i>Carbon</i> , 2019, 152, 740-745.	5.4	5
108	Hybrid Silicon Nanowire Devices and Their Functional Diversity. <i>Advanced Science</i> , 2019, 6, 1900522.	5.6	54

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109	Impact of molecular quadrupole moments on the energy levels at organic heterojunctions. Nature Communications, 2019, 10, 2466.	5.8	101
110	Exploring the write-in process in molecular quantum cellular automata: a combined modeling and first-principle approach. Journal of Physics Condensed Matter, 2019, 31, 405502.	0.7	1
111	Ammonia Plasma-Induced n-Type Doping of Semiconducting Carbon Nanotube Films: Thermoelectric Properties and Ambient Effects. ACS Applied Materials & Interfaces, 2019, 11, 21807-21814.	4.0	14
112	Electrochemically Exfoliated High-Quality 2H-MoS ₂ for Multflake Thin Film Flexible Biosensors. Small, 2019, 15, e1901265.	5.2	65
113	Impact of device geometry on electron and phonon transport in graphene nanorings. Physical Review B, 2019, 99, .	1.1	7
114	Electron Transport through Self-Assembled Monolayers of Tripeptides. Journal of Physical Chemistry C, 2019, 123, 9600-9608.	1.5	13
115	Fully sp ² -Carbon-Linked Crystalline Two-Dimensional Conjugated Polymers: Insight into 2D Poly(phenylenecyanovinylene) Formation and its Optoelectronic Properties. Chemistry - A European Journal, 2019, 25, 6562-6568.	1.7	40
116	Selective Transmission of Phonons in Molecular Junctions with Nanoscopic Thermal Baths. Journal of Physical Chemistry C, 2019, 123, 9680-9687.	1.5	7
117	Mapping Conformational Changes in a Self-Assembled Two-Dimensional Molecular Network by Statistical Analysis of Conductance Images. Physical Review Applied, 2019, 11, .	1.5	1
118	Immobilization of Detonation Nanodiamonds on Macroscopic Surfaces. Applied Sciences (Switzerland), 2019, 9, 1064.	1.3	5
119	Combined molecular dynamics and phase-field modelling of crack propagation in defective graphene. Computational Materials Science, 2019, 163, 117-126.	1.4	16
120	On-surface synthesis of nitrogen-doped nanographenes with 5-7 membered rings. Chemical Communications, 2019, 55, 4731-4734.	2.2	23
121	Thermal bridging of graphene nanosheets via covalent molecular junctions: A non-equilibrium Green's functions density functional tight-binding study. Nano Research, 2019, 12, 791-799.	5.8	29
122	Application of μ CT for the Determination of Total Surface Area of Stents. , 2019, , .		1
123	Metal ion-doped sol-gel film for emulating synaptic activity and short-term non-volatile memory. , 2019, , .		1
124	Stabilization of aqueous graphene dispersions utilizing a biocompatible dispersant: a molecular dynamics study. Physical Chemistry Chemical Physics, 2019, 21, 24007-24016.	1.3	9
125	Modeling of the Coadsorption of Chloride and Hydrogen Ions on Copper Electrode Surface. Journal of the Electrochemical Society, 2019, 166, D3042-D3048.	1.3	1
126	Reusable Photocatalytic Optical Fibers for Underground, Deep-Sea, and Turbid Water Remediation. Global Challenges, 2018, 2, 1700124.	1.8	7

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127	Insight into doping efficiency of organic semiconductors from the analysis of the density of states in n-doped C60 and ZnPc. <i>Nature Materials</i> , 2018, 17, 439-444.	13.3	101
128	Chirality-Dependent Electron Spin Filtering by Molecular Monolayers of Helicenes. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 2025-2030.	2.1	154
129	Time-dependent framework for energy and charge currents in nanoscale systems. <i>Chemical Physics</i> , 2018, 514, 176-182.	0.9	6
130	DFT study of interaction of additives with Cu(111) surface relevant to Cu electrodeposition. <i>Journal of Applied Electrochemistry</i> , 2018, 48, 211-219.	1.5	15
131	Unimolecular Logic Gate with Classical Input by Single Gold Atoms. <i>ACS Nano</i> , 2018, 12, 1139-1145.	7.3	24
132	Copper Electroplating with Polyethylene Glycol: Part II. Experimental Analysis and Determination of Model Parameters. <i>Journal of the Electrochemical Society</i> , 2018, 165, D13-D22.	1.3	7
133	First-Principle-Based Phonon Transport Properties of Nanoscale Graphene Grain Boundaries. <i>Advanced Science</i> , 2018, 5, 1700365.	5.6	17
134	A Dual-Stimuli-Responsive Sodium-Bromine Battery with Ultrahigh Energy Density. <i>Advanced Materials</i> , 2018, 30, e1800028.	11.1	56
135	Toward Highly Sensitive and Energy Efficient Ammonia Gas Detection with Modified Single-Walled Carbon Nanotubes at Room Temperature. <i>ACS Sensors</i> , 2018, 3, 79-86.	4.0	106
136	Signal and Noise of Schottky-Junction Parallel Silicon Nanowire Transducers for Biochemical Sensing. <i>IEEE Sensors Journal</i> , 2018, 18, 967-975.	2.4	6
137	Ultrasensitive detection of Ebola matrix protein in a memristor mode. <i>Nano Research</i> , 2018, 11, 1057-1068.	5.8	43
138	First-principles investigation of Ag-, Co-, Cr-, Cu-, Fe-, Mn-, Ni-, Pd- and Rh-hexaaminobenzene 2D metal-organic frameworks. <i>Materials Today Energy</i> , 2018, 10, 336-342.	2.5	18
139	Influence of defect-induced deformations on electron transport in carbon nanotubes. <i>Journal of Physics Communications</i> , 2018, 2, 115023.	0.5	5
140	High-Motility Visible Light-Driven Ag/AgCl Janus Micromotors. <i>Small</i> , 2018, 14, e1803613.	5.2	56
141	Visible Light Actuated Efficient Exclusion Between Plasmonic Ag/AgCl Micromotors and Passive Beads. <i>Small</i> , 2018, 14, e1802537.	5.2	35
142	Diversification of Device Platforms by Molecular Layers: Hybrid Sensing Platforms, Monolayer Doping, and Modeling. <i>Langmuir</i> , 2018, 34, 14103-14123.	1.6	10
143	Polymerization driven monomer passage through monolayer chemical vapour deposition graphene. <i>Nature Communications</i> , 2018, 9, 4051.	5.8	20
144	Thermal Decoherence and Disorder Effects on Chiral-Induced Spin Selectivity. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 5753-5758.	2.1	28

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145	Enhanced Magnetoresistance in Chiral Molecular Junctions. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 5453-5459.	2.1	69
146	Inducing the controlled rotation of single o-MeO-DMBI molecules anchored on Au(111). <i>Surface Science</i> , 2018, 678, 177-182.	0.8	21
147	Hexacene generated on passivated silicon. <i>Nanoscale</i> , 2018, 10, 12582-12587.	2.8	7
148	Electronic Resonances and Gap Stabilization of Higher Acenes on a Gold Surface. <i>ACS Nano</i> , 2018, 12, 8506-8511.	7.3	42
149	Density Functional Tight Binding for Quantum Plasmonics. <i>Journal of Physical Chemistry C</i> , 2018, 122, 19756-19766.	1.5	21
150	Gating Hysteresis as an Indicator for Silicon Nanowire FET Biosensors. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 950.	1.3	18
151	Immune Profiling of Polysaccharide Submicron Vesicles. <i>Biomacromolecules</i> , 2018, 19, 3560-3571.	2.6	6
152	Nanoscale Molecular Automata: From Materials to Architectures. <i>Natural Computing Series</i> , 2018, , 319-337.	2.2	0
153	Atomistic Framework for Time-Dependent Thermal Transport. <i>Journal of Physical Chemistry C</i> , 2018, 122, 21062-21068.	1.5	3
154	Tuning the conductance of a molecular wire by the interplay of donor and acceptor units. <i>Nanoscale</i> , 2018, 10, 17131-17139.	2.8	4
155	Self-Assembled Two-Dimensional Supramolecular Networks Characterized by Scanning Tunneling Microscopy and Spectroscopy in Air and under Vacuum. <i>Langmuir</i> , 2018, 34, 7698-7707.	1.6	4
156	Plasmonic Biosensor Based on Vertical Arrays of Gold Nanoantennas. <i>ACS Sensors</i> , 2018, 3, 1392-1400.	4.0	36
157	Metal ion binding and tolerance of bacteria cells in view of sensor applications. <i>Journal of Sensors and Sensor Systems</i> , 2018, 7, 433-441.	0.6	1
158	Effect of Magnetic Zigzag Edges in Graphene-like Nanoribbons on the Thermoelectric Power Factor. <i>Acta Physica Polonica A</i> , 2018, 133, 535-537.	0.2	0
159	Spin Dependent Conductance of a Quantum Dot Side attached to Topological Superconductors as a Probe of Majorana Fermion States. <i>Acta Physica Polonica A</i> , 2018, 133, 552-554.	0.2	0
160	Multimetallic Hierarchical Aerogels: Shape Engineering of the Building Blocks for Efficient Electrocatalysis. <i>Advanced Materials</i> , 2017, 29, 1605254.	11.1	98
161	Absorption Tails of Donor:C ₆₀ Blends Provide Insight into Thermally Activated Charge-Transfer Processes and Polaron Relaxation. <i>Journal of the American Chemical Society</i> , 2017, 139, 1699-1704.	6.6	73
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